

2634
500024-19

Duplicate

I hereby certify that this correspondence is being deposited on 5/14/2002 with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231

COPY OF PAPERS
ORIGINALLY FILED
Justina S. Townsend

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Group Art Unit: 2634

Ronald M. Hickling

Examiner: Young T. Tse

Title: **Direct Conversion Delta-Sigma
Receiver**

Serial No.: 09/241,994

Filed: February 2, 1999

Commissioner for Patents
Washington, D.C. 20231RECEIVED
JUL 09 2002
Technology Center 2600**RESPONSE TO OFFICE ACTION DATED MARCH 26, 2002**

Sir:

Responsive to the Office Action mailed March 14, 2001, kindly enter the following amendments:

IN THE SPECIFICATIONS:

Please replace the paragraph beginning with "A dashed line 112 of Figure 5C ..." at page 13, line 31, with:

A dashed line 112 of Figure 5C represents the transfer curve of the decimation filter 66 in one embodiment. In this embodiment, the low pass decimation filter 66 passes all three signal energies 106, 108 and 110. (For example, each of the signal energies 106, 108 and 110 could be produced by a different transmitting unit.) In this example, none of the signal energies are centered about D.C. In this way, the effects of any D.C. offset in the system and the 1/f noise (denoted by the increase in the spectral noise density curve 113 around zero frequency) can be reduced by follow-on filtering, for example, matched filtering. The spectral noise density curve